



## Southeast Regional CAT

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### Overview

SER-CAT, which represents institutions from the states of Alabama, Florida, Georgia, Kentucky, Missouri, North Carolina, South Carolina, Tennessee, and Virginia, as well as the Intramural Program of the National Institutes of Health, plans to build and operate a sector at the APS. The SER-CAT mission is to provide researchers from its member institutions with timely access to tunable, high-intensity x-rays for x-ray diffraction structural studies of biomolecules. SER-CAT plans to provide its users with a complete research facility, including a full complement of instrumentation, software, and support staff for high-throughput data collection and processing. SER-CAT also plans to provide 25% of its beam time to outside users through its Independent Investigator program.

### Research Focus

The principal focus of the SER-CAT research program is macromolecular crystallography. The SER-CAT beamline designs are based on those of SBC-CAT; researchers will be able to use both traditional and multiple wavelength anomalous dispersion (MAD) techniques for structure determination and investigation.

The research interests of SER-CAT researchers are varied, ranging from DNA, protein and virus structures, to catalysts and basic materials science.

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